

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 15 JUN 2004

Applicant's or agent's file reference 010302WOWZF FOR FURTHER ACTION				FOR FURTHER ACTIO	ON See Notification Preliminary Ex	n of Transmittal of International amination Report (Form PCT/IPEA/416)
International application No. PCT/US 03/12474				International filing date (day)	month/year)	Priority date (day/month/year) 23.04.2002
				l oth national classification and I	IPC	
Intern F41h	ational F -13/02,	Patent F41F	13/02	Jan Haustia State Medical State Stat		
Applicant OMNOVA WALLCOVERING (UK) LIMITED ET AL.						
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
	These annexes consist of a total of sheets.					
L						
3.	This	repor	t contains indications r	relating to the following iten	ns:	
	l	⊠	Basis of the opinion	•		
	11		Priority			
1	111		Non-establishment o	f opinion with regard to nov	velty, inventive step	o and industrial applicability
1	IV	\boxtimes	Last of unity of inver	ation		
	 Lack of unity of invention V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 					inventive step or industrial applicability,
	VI		Certain documents			
	VII		Certain defects in th	e international application		
	VIII		Certain observations	s on the international applic	cation	
					Date of completion of	of this report
Date of submission of the demand				Date of completion of	it tille topost	
30	30.10.2003				15.06.2004	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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1.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages							
	1-16		as originally filed						
	Clair	ms, Numbers							
	1-10	•	as originally filed						
	Drav	wings, Sheets							
	1/6-6		as originally filed						
2. With regard to the language , all the elements marked above were available or furnished to this Aulanguage in which the international application was filed, unless otherwise indicated under this iter									
		the language of a trai	the language of a translation fumished for the purposes of the international search (under Rule 23.1(b)).						
	П	the language of publi	cation of the international application (under Rule 48.3(b)).						
		Rule 55.2 and/or 55.3							
3.	With inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:						
		contained in the inter	national application in written form.						
		filed together with the	e international application in computer readable form.						
	☐ furnished subsequently to this Authority in written form.								
	☐ furnished subsequently to this Authority in computer readable form.								
	The statement that the subsequently furnished written sequence listing does not go beyond the disclos in the international application as filed has been furnished.								
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence						
4. The amendments have resulted in the cancellation of:									
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						

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International application No.

PCT/US 03/12474

5.		been considered to go beyond to	l as if (some of) the amendments had not been made, since they have ne disclosure as filed (Rule 70.2(c)).				
		(Any replacement sheet contain report.)	ing suc	h amendme	nts must be referred to under item 1 and annexed to this		
6.	Add	ditional observations, if necessary	" :				
Į۷.	. Lac	ck of unity of invention					
1.	In i	esponse to the invitation to restrict or pay additional fees, the applicant has:					
		restricted the claims.					
		paid additional fees.					
		paid additional fees under prote	est.				
		neither restricted nor paid addit	ional fe	es.			
		Rule 68.1, not to invite the applicant to restrict or pay additional to					
3.	 This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and is 				of invention in accordance with Rules 13.1, 13.2 and 13.3		
		complied with.					
		not complied with for the follow	ing rea	asons:			
4	 Consequently, the following parts of the international application were the subject of international prelin examination in establishing this report: 			application were the subject of international preliminary			
	×	l all parts.					
		l the parts relating to claims No	s				
V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement							
-	1. S	Statement					
	١	lovelty (N)	Yes: No:	Claims Claims	5-10 1-4		
	l	nventive step (IS)	Yes: No:	Claims Claims	1-10		
	i	ndustrial applicability (IA)	Yes: No:	Claims Claims	1-10		
	2. (Citations and explanations					

see separate sheet

Re Item IV

Lack of unity of invention

The requisite unity of invention (Rule 13.1 PCT) does not exist since there is no 1. technical relationship involving one or more of the same or corresponding special technical features in the sense of Rule 13.2 PCT between the subject-matter of the following groups of dependent claims:

Claims 1 - 9:

A covering for camouflage purposes comprising a sheet including a plurality of components, each component being capable of protecting a structure against detection by at least one sensing method, the covering having an adhesive exterior surface and an opposite surface which has an uneven surface profile.

Claim 10:

A system for camouflaging surfaces comprising:

- -a first elongate sheet with two zones of different appearances, one side of each zone running continuously along a respective side of the sheet and the other side of each zone being delimited by an undulating boundary line; and
- a second elongate sheet having a continuous field of the first appearance within which are disposed isolated regions of the second appearance,
- each said first and second elongate sheets being capable of being sectioned with the resulting sections being capable of being joined to other sections.
- The definitions of the different groups of claims are only intended to identify their 2. subject matter in a concise manner. They may well, as such, comprise terms or generalisations which, upon a close analysis could be found to extend the defined subject matter beyond the content of the application as filed.
- US 4 953 922 A (D1), which is considered to represent the nearest prior art, 3. discloses a covering for application to one or more surfaces of a structure, the covering comprising a sheet including a plurality of components, each of said components being capable of providing protecting against detection by at least one sensing method, the covering having an adhesive exterior surface and an exterior surface opposite the adhesive surface having an uneven surface profile.

Furthermore D1 discloses that the sensing methods include visible inspection, surface profiling, near infra-red sensing, thermal infra-red sensing and radar detection.

The covering according to D1 includes metallic film which is transparent to thermal infra-red radiation.

- 4. Since all non-optional features of present claim 1 (see also point V below), as well as the features of dependent claims 2 4 are consequently known from D1, the special technical features, as defined in Rule 13.2 PCT, of the first group of claims (claims 1 9), which are intended to be a contribution over D1, i.e. the features of dependent claims 5 9:
 - 5. radio absorbing means;
 - 6. phase change material;
 - 7. acoustic absorbing means;
 - 8. flexibility; and
 - 9. printed image representing environmental background,

apparently solve the problem of providing protection against additional methods of detection combined with flexibility.

- 5. The special technical features, as defined in Rule 13.2 PCT, of the second group of claims (claim 10), which are intended to be a contribution over D1, i.e. the features:
 - a first elongate sheet with two zones of different appearances, one side of each zone running continuously along a respective side of the sheet, the other side of each zone being delimited by an undulating boundary line; and
 - a second elongate sheet having a continuous field of the first appearance within which are disposed isolated regions of the second appearance; and
 - c. the sheets being capable of being sectioned with the resulting sections being capable of being joined to other sections,

apparently solve the problem of manipulation and storage of large sheets of camouflage material (see the description page 16, lines 8 - 10).

 Between the respective concepts of the indicated groups of claims no same or similar special technical features can be determined and different underlying problems are solved. Moreover, it is clear that the claimed concepts can be applied independently of each other, i.e. they are not necessarily inter-related. It appears therefore, that no technical relationship between the various claimed concepts exists involving one or more of the same or corresponding special technical features, beside the common and already well known features of D1 as indicated in point IV-3 above. The indicated groups of claims are thus not so linked as to form a single general inventive concept.

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The application does not meet the requirement of clarity of Article 6 PCT. 1.

The expression:

- " said covering optionally further comprising a surface.", in claim 1 renders this claim and consequently the application unclear.
- US 4 953 922 A (D1), which is considered to represent the nearest prior art, 2. discloses a covering for application to one or more surfaces of a structure, the covering comprising a sheet including a plurality of components, each of said components being capable of providing protecting against detection by at least one sensing method, the covering having an adhesive exterior surface and an exterior surface opposite the adhesive surface having an uneven surface profile.

Consequently, the subject matter of independent claim 1 is not novel (Art.33(2) PCT).

Dependent claims 2 - 9 do not contain any features which, in combination with the 3. features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, the reasons being as follows:

The features of dependent claims 2 - 4 and 8 are known from D1. The features of dependent claims 5 and 7 are known from US 5 312 678 A (D2). The features of dependent claim 6 are known from US 6 373 058 B1 (D3). The features of dependent claim 9 are obvious to the man skilled in the art of flexible camouflage systems.

4. In respect of independent claim 10, WO 95 08435 A (D4) (in particular figures 11, 13 and 14) describes

A system for camouflaging surfaces comprising:

- a first elongate sheet patterend with two zones, the zones having different appearances, each zone extending along a primary dimension of the sheet,
- a second elongate sheet having a continuous field of the first appearance within which are disposed isolated regions of the second appearance,
- each of said first and second elongate sheets being capable of being sectioned with the resulting sections being capable of being combined with other sections so as to form a camouflage pattern.

The subject matter of independent claim 10 differs from this prior art, in that one side of each zone of the first elongate sheet runs continuously along a respective side of the sheet and the other side of said zone is delimited by a boundary extending along the relatively long dimension of the sheet in a generally undulating form, such that all regions of the sheet on one side of the boundary form a zone of a first appearance and all regions of the sheet on the other side of the boundary form a zone of a second appearance.

These features are already suggested by US 6 127 007 A (D5) for a similar type of camouflage. Consequently, on the basis of a combination of the teachings of D4 and D5, no inventive step appears to be present in the subject matter of independent claim 10.

5. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 and D2 is not mentioned in the description, nor are these documents identified therein.